

Amendment to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) Procedure for the increased security of authentication processes in digital mobile radio systems, ~~is characterized by~~ comprising:

storing several different secret SIM-specific codes ~~codes~~ keys (KI) that are stored in the a
mobile radio network and in the a subscriber identification module (SIM)[,];

pre-configuring and storing a RAND/SRES/KC authentication triplet for each one of the
several secret keys (K1) stored in the mobile radio network;

~~and one code (KI) that is selected for the execution of the authentication between~~
~~subscriber identification module and the mobile radio network of the SIM from several~~
~~stored secret codes~~

selecting and sending a random value RAND of one of the pre-configured authentication
triplets to the subscriber identification module (SIM) by the mobile radio network;

selecting one of the secret keys (K1) stored in the subscriber identification module (SIM)
and calculating from the random value RAND and the selected one of the secret keys
(K1) a corresponding value for a signed response (SRES) and cipher key (KC) and
sending the calculated values to the mobile radio network by the subscriber identification
module (SIM); and

comparing the signed response (SRES) to all SRES values for the random value RAND
by the mobile radio network and validating the subscriber's authentication if a match is
found.

2. (currently amended) Procedure, according to claim 1, ~~is characterized by the~~
~~selection~~ further comprising randomly selecting said one of the ~~code~~ secret keys (KI)

stored in the subscriber identification module (SIM) by the subscriber identification module (SIM)[,] according to the random principle.

3. (currently amended) Procedure, according to claim 2 1, is ~~characterized by the mobile radio network that, with special algorithms under specification of~~ wherein pre-configuring and storing said RAND/SRES/KC authentication triplet for each of said several different secret keys (K1) further comprises passing a random number (RAND) determines and each of said secret keys (K1) through a plurality of pre-determined algorithms to determine a SRES/KC-pair for all each of the SIM-specific codes keys (KI) forming, with the respective RAND, RAND/SRES/KC-triplets.

4. (canceled)

5. (canceled)

6. (currently amended) Procedure, according to claim 5 3, is ~~characterized by~~ wherein the subscriber identification module (SIM) that calculates the corresponding values for signed response SRES and cipher key KC by from the transmitted random value RAND and the selected code key (KI) using its copies of the pre-determined algorithms, and sends the determined answer to the mobile radio network.

7. (canceled)

8. (currently amended) Procedure, according to claim 7 1, is characterized further comprising encrypting a transmission by the mobile radio network and the SIM, which is used to encode the transfer or transmission of the matching SRES corresponding using the cipher key KC.